# **MULTIMEDIA UNIVERSITY**

## FINAL EXAMINATION

**TRIMESTER 1, 2017/2018** 

### PCR0025 - CRITICAL THINKING

(All sections / Groups)

27 OCTOBER 2017 3.00 p.m – 5.00 p.m (2 Hours)

#### INSTRUCTIONS TO STUDENTS

- 1. This question paper consists of 19 pages.
- 2. Answer ALL questions.
- 3. Shade your answers on the OMR sheet.

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## MULTIPLE-CHOICE QUESTIONS [100 MARKS]

1.	Uncritical thinkers tend to do all of the following EXCEPT  A. resist criticisms of belief and assumptions  B. pursue victory in any dispute they are engaged in  C. base belief on personal preference or self-interest  D. draw well-supported conclusions from evidence and data
	Keisha wants to know if one of the substances in her YY facial cleanser is safe for her sensitive skin. She types on <i>Google</i> page 'Unsafe chemical substance in cleanser'. Keisha's curiosity should be encouraged; however, she does not follow one important standard of critical thinking called  A. clarity  B. precision  C. relevance  D. consistency
3.	"How could we verify whether he is lying or not?"  "Does all the evidences we found, make sense together?"  Which are the standards of critical thinking that demand us to ask the questions above?  A. Clarity; Relevance  B. Precision; Consistency  C. Relevance; Completeness  D. Accuracy; Logical Correctness
4.	"That restaurant is really bad. Nobody goes there anymore and it is too crowded." This argument violates the standard of critical thinking called  A. fairness B. accuracy C. consistency D. completeness
5.	Berny majors in engineering but he really loves to watch medicinal movies on television.  He also loves to read books and magazines on health and well-being. Berny believes that one day he will become a doctor. Berny is having a  A. stereotype  B. herd instinct  C. wishful thinking  D. self-serving bias
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reason safer to A. ger B. wa C. unv	you see a driver coming towards you with the turn signal on, you have a good to believe that the driver intends to turn. You may be incorrect, and it might be to withhold action until you are certain. Such assumption is  neral  urranted  warranted  t logically correct
upload fact, she Lily is A. gro B. wis C. seli	lways uploads her edited 'selfie' pictures in the social media. Whenever she led a picture, she will ask her friends to click on the like button of the picture. In he always feels beautiful and confident every time any person likes her pictures. having a critical thinking barrier that is known as  bup bias shful thinking f-serving bias f-interested thinking
volunte the stu- their se becaus A. gro B. con C. poo	g lecture hall where a critical thinking class is being held, the lecturer asks for a eer to give an opinion on a certain issue being discussed, but no one responds. All dents just look at each other, avoid the lecturer's eye contact, and remain silent on eats. Based on this situation, the students refuse to answer the question probably se of  but bias informism or reading skills f-interested thinking
helped is not a A. Gro B. Wi C. Sel	leader: I think teacher should award me with a lot of bonus marks, because I teacher pass the information to all members in class throughout this trimester. It an easy job. Which of the following is the barrier that the class leader exhibits? oup bias shful thinking lf-serving bias lf-interested thinking
charact A. Res B. Hav C. Fre	It thinking demands our thinking to be fair. Which of the following describes the teristics of a fair person?  sist unfamiliar ideas  ving prejudge issues  se of distorting preconceptions  entify truth with their own self-interest  Continued

11. "Dr Gerald has suggested that we conduct controlled studies to test my claim that runners who stretch before they run suffer fewer injuries. This would be like conducting controlled studies to determine whether fish live in water. It's just common sense to suppose that runners who stretch have more limber muscles, and thus suffer fewer injuries."

How does the speaker of this argument display pseudoscientific attitude?

- A. Ignore all the evidence to the contrary
- B. Stand by his opinion no matter what happened
- C. Give a well reasoning in response to Dr. Gerald suggestion
- D. Refuse to subject his "common sense" claim to scientific testing
- 12. Psychic aura reader: When you enter this room, I can sense your vibes and colors. And based on that color I can tell what kind of

emotions you are experiencing now.

May : Okay, what am I feeling right now? Psychic aura reader: You are happy and contented.

: Wrong. My boyfriend broke with me this morning.

I feel sad and devastated.

Psychic aura reader: You only think you feel sad and devastated.

Subconsciously, you are pleased he broke up with you.

In what way does this passage reflect pseudoscientific thinking?

- A. The aura reader is seeking to explain away falsifying data.
- B. The aura reader uses clear language to describe May's feeling.
- C. They both confused about what science can and cannot establish.
- D. The aura reader seeks out falsifying data & confronts it openly and honestly.

13.	Sm	oking in the classroom is morally wrong. This claim is
	A.	not testable
	В.	realistically verifiable

- C. realistically falsifiable
- D. giving proper basis for scientific conclusions
- 14. The claim "Nothing bad ever happens to a person unless he or she has done something bad, either in this life or a previous life" is
  - A. testable
  - B. verifiable
  - C. falsifiable

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D. un-falsifiable

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- 15. Gathering relevant data includes \_\_\_\_\_.
  - A. collecting methodical collection of the research
  - B. guiding one single observation, and if necessary many observations are needed
  - C. considering the experiment implications and test those implications by means of observation or experiment
  - D. guiding investigation by certain presuppositions that influence the kind of observations and experiment being conducted
- 16. A hypothesis stated that collagen consumption can increase skin elasticity and moisture.

A double blind placebo study conducted last year found that the controlled group and experimental groups experienced a reduction in wrinkles. Based on this study, we can conclude that

- A. the hypothesis is accepted
- B. collagen is good for your skin
- C. the controlled group experience placebo effect
- D. the result of the experiment should not be revised

To answer question 17 and 18, read the following paragraph:

To see if wearing perfume interferes with concentration in class, a psychologist conducts an experiment involving university students in two English classes.

- 17. The control group of this experiment consists of ...
  - A. students who wear strong perfume
  - B. students who did not wear any perfume
  - C. students who wear mix types of perfumes
  - D. students who wear pleasant and nice perfume
- 18. What should be the finding of the experiment to confirm that wearing perfume interferes with concentration in class?
  - A. It does not matter which group perform better as long as the finding is significant.
  - B. The control group significantly recalls less items of the lecture than the experimental group.
  - C. The experimental group significantly recalls less items of the lecture than the control group.
  - D. There is no significant difference between the experimental group and the control group in term of the items of the lecture recalled.

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19.	The	term	"confirmation	bias"	means	a	process	of	choosing	only	evidence	that
							-		-			

- A. is collected from experiments
- B. supports a favoured hypothesis
- C. can be predicted by most scientists
- D. can confirm a proven scientific law
- 20. Which of the following could be a hypothesis?
  - A. Parking a car near a beach will make it rust faster.
  - B. Selecting 100 students of to become a controlled group.
  - C. Why did students who took experimental pills show improved memory?
  - D. Observe the attitude of experimental group from time to time and record.
- 21. One kind of imprecision in language is vagueness. A vague word divides things into three classes. Which of the following is **NOT** one of the examples?
  - A. Those things to which the words never apply
  - B. Those things to which the words clearly apply
  - C. Those things to which the words clearly does not apply
  - D. Those things to which the words may and may not apply
- 22. Mike : We better leave now, Steven said the show starts at 2pm. Hannah : We have plenty of time, He said it starts at 5pm.

Which of the following best describe this passage?

- A. Imprecision
- B. Verbal dispute
- C. Factual dispute
- D. Miscommunication
- 23. Mrs Juwie cannot bear children. The problem for this passage is, it consist of
  - A. prejudice
  - B. overgenerality
  - C. semantic ambiguity
  - D. syntactical ambiguity
- 24. Democracy means rule by the ignorant masses. This is an example of a
  - A. lexical definition
  - B. precising definition
  - C. stipulative definition
  - D. persuasive definition

25.	Which of the following examples does NOT show overgenerality in context?
	A. Mom: When will you come?
	Sister: Soon, mom.

B. Teacher: Who is this?
Student: My acquaintance.

C. Lydia: Zayn, what is eleven times 3? Zayn: More than eleven, of course.

D. Dad; What do you want to have for drink? Mimi: Apple juice.

- 26. Metropolis means a place like New York City, London, or Paris.
  - A. Ostensive definition
  - B. Definition by subclass
  - C. Enumerative definition
  - D. Definition by genus and difference
- 27. "In 2019, we will try to maximize full employment in our country. What I mean by full employment is that the unemployment rate of 5% or lower", said the President of United States.
  - A. Lexical definition
  - B. Precising definition
  - C. Persuasive definition
  - D. Stipulative definition

A. ostensive definition

- 28. Which of the following is a stipulative definition?
  - A. Indolent means having or showing a disposition to avoid exertion; lazy; slothful.
  - B. Litter-butt means a person who throws lighted cigarette butts out of car windows.
  - C. Homophobe means a person who has an irrational hatred or fear of homosexuality.

29. Beverage means drinkable liquid. This is an example of a/an .

D. Disaffected means dissatisfied, bored, resentful or discontented, usually against authority or against someone or something normally respected.

	B. enumerative definition
	C. synonymous definition
	D. etymological definition
30.	Optometrist originates from the Greek word optos, meaning "seen" or "visible". This is
	an example of a/an
	A. ostensive definition
	B. enumerative definition
	C. synonymous definition
	D. etymological definition Continued

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42.	The argument "If Denise goes to school, then Laura sends him to school; if Laura sends him to school, then she is not able to attend the meeting; so, if Denise goes to school, then Laura is not able to attend the meeting" is  A. a categorical syllogism  B. a hypothetical syllogism  C. an argument by definition  D. an argument by elimination
43.	The argument "The universe is a complex system like a watch. We wouldn't think that a watch can come about by accident. Something so complicated must have been created by someone. The universe is a lot more complicated, so it must have been created by a being who is a lot more intelligent" is  A. a categorical syllogism  B. an argument by analogy  C. an argument by definition  D. an argument by elimination
44.	"Cutting the interest rate will have no effect on the stock market this time round as people have been expecting a rate cut all along. This factor has already been reflected in the market." In this argument, which statement is the conclusion?  A. People have been expecting a rate cut all along.  B. This factor has already been reflected in the market.  C. Cutting the interest rate will have no effect on the stock market this time round.  D. None of the above because it is not an argument.
45.	"All bald men are grandfathers. Harold is bald. Therefore, Harold is a grandfather." If it is true that Harold is bald, then this argument is  A. valid; sound  B. strong; cogent  C. valid; unsound  D. invalid; unsound
46.	"Harold is a grandfather. Harold is bald. Therefore, all grandfathers are bald." If all premises are true, this argument is  A. valid; sound  B. strong; cogent  C. weak; uncogent  D. strong; uncogent

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D. inductive generalization

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59.	"Mark Thompson is a plagiarizer. Therefore, it follows that he has used other people's work without giving credit." If the premise is false, then this argument is  A. valid and sound  B. valid but unsound  C. strong but uncogent  D. invalid and unsound
60.	"The Nobel prize-winning biologist Herbert Ralls has stated that chlorinated hydrocarbons in our water supply constitute a major threat to the public health. Furthermore, no scientists disagree with him on this point. Accordingly, we conclude that the presence of these chemicals is indeed a threat." This argument is  A. valid and sound  B. strong and cogent  C. weak and uncogent  D. invalid and unsound
61.	Either you will make an A in this course or you will make a B, C, or F. You did not make an A. So,  A. you must have failed the course B. you must have passed the course C. you did not make an A for the course D. you must have got B, C, or F for the course
62.	<ul> <li>Which is NOT a valid argument?</li> <li>A. Huang lives in either Kansas City, Kansas, or Kansas City, Missouri. If he lives in Kansas, then he is an American.</li> <li>B. No one who eats in the cafeteria likes the pizza. My boss eats in the cafeteria. Therefore, my boss does not like the pizza.</li> <li>C. Everyone northbound on the Interstate yesterday was late to work. Faith was northbound on the Interstate. Faith was late to work.</li> <li>D. There are 6 cans of tomatoes in Carlo's pantry and 14 in his basement. There are no other cans of tomatoes in his house. Therefore, he has 20 cans of tomatoes in his house.</li> </ul>
63.	"If a computer is made by IBM, then it comes with a warranty. XYZ computers are not made by IBM. Therefore, XYZ computers do not come with a warranty." This argument is  A. weak
	B. valid C. strong D. invalid Continued

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64.	A. true premises B. a probably true conclusion C. both A and B D. none of the above		
65.	<ul> <li>Which of the following is TRUE?</li> <li>A. No cogent argument has any false</li> <li>B. Denying the antecedent is a valid r</li> <li>C. If an argument is unsound, then it is</li> <li>D. A mathematical proof in geometry</li> </ul>	mode of reasoning. has at least one false premise.	ing.
66.	<ul> <li>Which of the following is FALSE?</li> <li>A. Every sound argument has a true c</li> <li>B. Modus ponens is a valid pattern of</li> <li>C. No strong arguments have any fals</li> <li>D. Some inductive arguments are stro</li> </ul>	f reasoning. se premises.	
67.	A/An seeks to logically possibility remains.  A. statistical argument  B. argument by analogy  C. argument by elimination  D. argument based on Mathematics	rule out various possibilities unt	til only a single
68.	Arguments that are strong and have all A. sound B. cogent C. reliable D. inductively successful	ll true premises are said to be	·
69.	"If someone owns a Rolls Royce, then owns a Rolls Royce." This argument is A. modus ponens, valid B. modus tollens, valid C. denying the antecedent, invalid D. affirming the consequence, invalid		efore, Bill Gates

70.	"If Toronto is a city in Mexico, then Toronto is south of the border. Toronto is south of the border. Therefore, Toronto is a city in Mexico." This argument is  A. deductive, valid B. inductive, strong C. deductive, invalid D. none of the above
71.	"If I have the flu, then I have a sore throat. I do not have the flu. Therefore, I do not have the sore throat." If all the premises are true, this argument is  A. valid  B. strong  C. sound  D. unsound
72.	A dealer bought an article for RM7, sold it for RM8, bought it back for RM9, and sold it for RM10. How much profit did he make?  A. RM1  B. RM2  C. RM3  D. RM4
73.	Stephen was looking at a photo. Someone asked him, "Whose picture are you looking at?" He replied: "I don't have any brother or sister, but this man's father is my father's son." So, whose picture was Stephen looking at?  A. Stephen's son  B. Stephen's father  C. Stephen's brother  D. Stephen's nephew
74.	"If the patient has malaria, then a blood test will indicate that his blood harbors at least one of these parasites: P. falciparum, P. vivax, P. ovale and P. malaria. Blood test indicates that the patient harbors none of these parasites. Therefore the patient does not have malaria." The logical name for this argument is  A. modus tollens  B. modus ponens  C. denying the antecedent '  D. affirming the consequence

75.	"My keys are either next to my bed, on the coffee table, or in my coat pocket. My keys are not next to my bed. My keys are not on the coffee table. So, my keys are in my coat pocket." The logical name for this argument is  A. modus tollens B. chain argument C. predictive argument D. argument by elimination
76.	"Hannah will graduate, provided she passes Critical Thinking." This is an example of
	A. non argument; illustration
	B. non argument; explanation
	C. non argument; conditional statement
	D. non argument; unsupported assertion
77.	Which of the following reasons can be used to doubt the credibility of the source?  A. The source has motive to lie.  B. The source speaks about probable claims.  C. The source is from a reliable internet source.  D. The source speaks inside the area of his expertise.
78.	How can we know whether the premises are true or untrue?  A. Look for consistency  B. Check the logical correctness  C. Check whether it comes from a reliable source  D. All of the above
79.	"If we are in Perth, then we are in Australia. We are not in Perth. Therefore, we are not in Australia." If all the premises are true, then this argument is  A. valid  B. strong  C. sound  D. invalid
80.	If Delta is an alpha, then Delta is a beta. If Delta is a theta, then Delta is a beta. Either Delta is an alpha or Delta is a theta. Therefore,  A. delta is a beta  B. delta is a theta  C. delta is a delta  D. delta is an alpha
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#### Questions 81-100: Identify the fallacies committed in the arguments.

- 81. Child to playmate: Admit it! Admit that Doraemon is a better cartoon show than Shin Chan! If you don't, my big brother going to beat you up!
  - A. Scare tactics
  - B. Appeal to pity
  - C. Personal attack
  - D. No fallacy
- 82. The wiper blades were turned on when I started the engine of this rental car. It probably has been raining when the last person returned the car.
  - A. Straw man
  - B. Red herring
  - C. Bandwagon argument
  - D. No fallacy
- 83. Convicted murderer, Derry Boston has argued that he did not receive a fair trial. But Boston is a violent gangster who spent 10 years in prison. Why should we listen to this criminal?
  - A. Straw man
  - B. Personal attack
  - C. Attacking the motive
  - D. No fallacy
- 84. I wish I could take my two cute little dogs with me when I move, but I just can't. I understand that your house is so small but I don't think they will take a lot of spaces. I can't even imagine if no one take care of them and they will be starving to death.
  - A. Straw man
  - B. Red Herring
  - C. Appeal to pity
  - D. Attacking the motive
- 85. I am entitled to say whatever I choose because I have a right to say whatever I want.
  - A. Straw man
  - B. Look who's talking
  - C. Begging the question
  - D. No fallacy

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- 86. "Are you still as self-centered as you used to be?"
  - A. Personal attack
  - B. Loaded question
  - C. Look who's talking
  - D. Questionable cause
- 87. Mr. Lee's views on Japanese culture are wrong. This is because his parents were killed by the Japanese army during World War II and that made him anti-Japanese all his life.
  - A. Straw man
  - B. Ad hominem
  - C. Argumentum ad hominem
  - D. No fallacy
- 88. Ford cars are lemons. I've owned two, and they gave me nothing but trouble.
  - A. Appeal to ignorance
  - B. Hasty generalization
  - C. Inappropriate appeal to authority
  - D. No fallacy
- 89. God does not exist because every argument for the existence of God has been shown to be unsound.
  - A. Inconsistency
  - B. Appeal to ignorance
  - C. Bandwagon argument
  - D. No fallacy
- 90. Don't get a credit card. If you do, you'll be tempted to spend money you don't have. Then you'll max out your card. Then you'll be in real debt. You'll have to start gambling in the hope of getting a big win. But you'll normally lose. Then you'll have to steal money to cover your losses. Then your partner will leave you. And you won't be able to feed the dog, and it'll die. And it would be bad if the dog died. So you mustn't get a credit card.

- A. Slippery slope
- B. False alternative
- C. Hasty generalization
- D. No fallacy

- 91. I need a brand new car. My last two cars have all been reliable, and they were white. So White cars are good for me.
  - A. Equivocation
  - B. Inconsistency
  - C. Weak analogy
  - D. Mere correlation
- 92. Many people criticize Thomas Jefferson for being an owner of slaves. But Jefferson is one of the greatest presidents in the world. Clearly, this criticism is illogic.
  - A. Strawman
  - B. Red herring
  - C. Equivocation
  - D. No fallacy
- 93. One thing that we know for certain is that nothing is ever true or false.
  - A. Strawman
  - B. Equivocation
  - C. Inconsistency
  - D. No fallacy
- 94. Opponents of capital punishment have argued that the death penalty is unfair and discriminatory. But it is ridiculous to suggest that cold-blooded murderers should not have to pay for their crimes. How is that fair to the victims or their families?
  - A. Strawman
  - B. Equivocation
  - C. Inconsistency
  - D. No fallacy
- 95. In response to the problem of illegal immigration from Mexico someone might argue that the only way to deal with the problem of illegal immigration is to massively increase our border controls, and vigorously pursue and deport all illegal aliens.
  - A. Inconsistency
  - B. Weak analogy
  - C. False alternative
  - D. No fallacy

- 96. Sarah ignores an email that says she should forward it or she will be unlucky. On the way home that day, she has a flat tire. She wishes she had sent the email.
  - A. Questionable cause: Post hoc fallacy
  - B. Questionable cause: Mere correlation fallacy
  - C. Questionable cause: Oversimplified cause fallacy
  - D. No fallacy
- 97. Noisy children are a real headache. Two aspirin will make a headache go away. Therefore, two aspirin will make noisy children go away.
  - A. Equivocation
  - B. Inconsistency
  - C. Questionable cause
  - D. No fallacy
- 98. You don't want to take Critical Thinking class. Only nerds take that class.
  - A. Scare factics
  - B. Weak analogy
  - C. Bandwagon argument
  - D. No fallacy
- 99. Cynthia wrote a status in her social media: 'All men are the same. They are hopeless and lazy!' Gary feels unjustified by her status and writes a comment: 'Well, women are worst. They are materialistic and hypocrite!' Gary justifies his action as right because he tries to make it clear to Cynthia and correct her way of thinking.
  - A. Inconsistency
  - B. Begging the question
  - C. Two wrongs make a right
  - D. No fallacy
- 100. Barb feels ill one morning and asks Butch to inform the instructor that this is the reason why she will not be in class. Butch carries out Barb's request as follows: "Barb isn't here today because she didn't feel like coming."
  - A. Strawman
  - B. Personal attack
  - C. Attacking the motive
  - D. No fallacy

**End of Paper** 

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